





## Issues Addressed in this Release

**Table 3** — Issues addressed in this release

Issue	Resolution	Issue ID (ECR#)
Compatible phases were not being served until a double clearing overlap was finished	If a double clearing overlap was being timed when cycling within a co-phase group with only one ring active, a call for a compatible phase in the inactive ring was not being serviced immediately. It waited until the 'next' phase decision was green before servicing the compatible phase. This has been corrected.	799
Double clearing overlap's green timer was not working correctly	When the parent phase terminated, the Double Clearing Green time did not start until the parent phase had timed out the Red clearance interval. This has been corrected so that the Double Clearing Overlap green time is the time lag between the end of the parent green and the end of the overlap green.	800
Double clearing overlaps were going from yellow directly to green without timing the parent phase's red time	This issue has been corrected.	836
New Ped Overlap Mode 3 needed to be added to preemption	The third ped overlap mode (Ped Overlap Mode 3) is now supported in preemption.	966
Double clearing overlaps were not working during preemption runs	Double clearing overlaps were not functioning in cyclic preemption intervals. In particular, this occurred in a simple railroad preemption with a Fixed G+Y+R track clearance, followed by cyclic intervals. Double clearing overlaps now function properly during preemption runs.	1085
Cyclic preemption intervals were counting down the maximum timer despite the absence of conflicting calls	Preemption now stops the max timer countdown unless a serviceable conflicting call is detected.	1089
A cyclic preemption interval would time-out with no calls present and enter Hold Rest, so new calls were not allowing the phase to extend	Such calls are now properly respected. The issue is resolved.	1091
Enhancement request: Preemption exit functions should include a way to place Ped calls upon exiting the preemption run.	A feature has been added to the Exit control below Phase Calls that allows the operator to set an exit Pedestrian Call as well.	1135
Enhancement request: A request that overlaps could be programmed to start prior to a parent phase	An overlap can now be assigned to start ahead of its parent phase. This is known as a 'leading' overlap.	1186
Enhancement request: A request that overlaps could be delayed by a user-specified time	An overlap can now be programmed to delay its start a user-selected amount of time after the start of its parent phase.	1187
Enhancement request: Preemption exit functions should add a feature to Exit to Phases for a specified amount of Green time.	Fixed intervals at the end of the preemption run are now used to provide this functionality.	1219
Ped overlaps in a cyclic preemption interval were not clearing when transitioning into preemption	Ped Overlaps that were programmed into cyclic intervals of preemption runs were hard coded to use Mode 2, which prevents the Ped from providing a Ped Clear interval. A ped overlap in a preemption run now uses the proper ped mode as stored elsewhere in the controller database.	1240
A Not Ped Overlap under manual control can put the intersection into flash (due to a Short Yellow fault) if the operator repeatedly presses the Interval Advance Input	Under Manual Control, any extra Interval Advance inputs are now ignored during Yellow and Red clear. This prevents the problem.	1400
A controller operating under Interconnect Time-of-Day Revert would not recover to interconnected operation	If the controller is running as an interconnect with another controller, the Interconnect TOD Revert option tells the controller to revert to normal local TOD operation if the remote interconnected controller signal disappears. The revert portion functioned correctly, but when the interconnect communication was re-established, the controller would not return to interconnected operation. This has been corrected in the version 3.6.2 firmware, so that when an interconnect pulse again appears on the input, the controller will exit local TOD operation and return to interconnected operation.	1401
In firmware version 3.6, the Master Zero Interconnect pulse was not always being generated correctly	The Master Zero Pulse was only operating if the Interrupter was set to Yes and the pulses per cycle was set to something other than zero. Now, the Master Zero Pulse is always generated.	1421
Double clearing overlaps would not operate during preemption	Double clearing overlaps now operate properly during a preemption run.	1452
Keypad initiation of the railroad preemption functions was not operating	Railroad preemption functions can now be activated manually using the controller keypad on the dynamic screens, as described in the 3000 Operating Manual, on the Chapter 2 pages describing the Preemption Dynamic Status screens. (Requires a shift-preempt# press on the dynamic status screen to toggle to call.	1453
Channel 5's red output was being dimmed when BIU mapping was enabled	This has been corrected and tested. Channel 5 red output now operates normally when operating under BIU mapping.	1463
Not Ped Overlaps were not functioning during preemption	Not Ped Overlaps (Modes 2, 7 and 8) now operate correctly during preemption.	1490
In TS 2 Type 1 cabinets, the Canadian Fast Flash option generated irregular flash rates	This was caused by an interference pattern being set up between the controller's output signals and the BIU's 10Hz operating frequency. The problem has been corrected.	1549
When transitioning to preemption, a double clearing overlap would not start timing green until the end of the red clearance of the terminating phase. This caused an unnecessary delay in the transfer to preemption.	Now, when an overlap is active and a preemption call is received, the overlap times according to the times configured for overlaps within the preemption run.	1551
During Advance Warning operation, a Double Clearing Overlap would not work correctly	The next greens now will not start until the Double Clearing Overlap has finished clearing.	1553
After a preemption run, some overlaps were being locked Red until controller was restarted	A Double Clearing Overlap during normal operation now works correctly after the controller exits a preemption run.	1554

Issue	Resolution	Issue ID (ECR#)
Double Clearing Overlaps would not serve during the first pass through the cycle after a controller restart	Double Clearing Overlaps now operate correctly immediately after power up of the controller.	1566
Overlaps timing during the onset of a preemption call would not match parent phase's timing	When transitioning to preemption, an Overlap now times with the parent phase properly.	1567, 1569
Enhancement request: Controllers with Ethernet card installed for port 3 should have the ability to set the IP address on the interface screen (Was only available in a PC utility)	An IP address can now be added directly into the controller on the Comm Setup screens of the controller: <b>Main menu &gt; 3 Change Data &gt; 5 Comm/System Setup &gt; 2 Comm Setup &gt; pgdn &gt; pgdn &gt; pgdn</b> . For more details, refer to Chapter 12: Comm/System Setup of the 3000 Series Operating Manual.	1584
(Firmware 3.6) In a TS 2 Type 1 cabinet, various communications problems were reported. (Videotrak as BIU, MMUs, Eagle cabinets, Econolite cabinets)	The extensive communications changes introduced to the 3000 series controllers in firmware v3.6 caused some problems when connecting to some devices. The communications section has been updated and tested to verify that these scenarios all now function properly.	1624, 1670

## Additional Guidance on the 3000/E Traffic Controllers

### Additional Documentation

These documents provide useful information about 3000 Series controllers and other products often used along with them:

**Table 4 – Additional Documentation about 3000 Series traffic controllers**

Document	Part Number
<i>3000 Series Operating Manual</i>	8204C
<i>3000 Series TS1 Firmware (8216B) Release Notes</i>	99-331
<i>3000 Series Protocol-90 Firmware (8216F) Release Notes</i>	99-371
<i>CLMATS Installation Manual</i>	81-858
<i>CLMATS Operating Manual</i>	81-883
<i>CLMATS Release Notes</i>	99-275
<i>CLMATS Preemption Management Module Release Notes</i>	99-365
<i>Double Diamond MMU Operating Manual</i>	8314B
<i>M3000 Operating Manual</i>	5928
<i>M3000 Firmware Release Notes</i>	99-329
<i>Tech note: Modem Setup Instructions for UTC Devices</i>	99-385

Additional information is also available at the Quixote Traffic website: <http://www.quixtraffic.com/>.

### Technical Support

This contact information will connect you with the technical support staff of Quixote Traffic Corporation, should you require additional help concerning 3000/E traffic controllers.

#### Quixote Traffic Corporation - Technical Support Center

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